

CLAIMS

We claim:

[1] A disk apparatus comprising:

a stationary frame to be a stable portion, and
a floating unit which is disposed in said stationary frame through elastic component and which performs recording and/or reproducing on a disk-shaped recording medium,

wherein said floating unit comprises a clamping member including a clamper which holds said disk-shaped recording medium, and a disk recording/reproducing-driving member including a turn table, and

a part of said clamper and a part of said turn table are fitted in each other, when said disk-shaped recording medium is held between said clamper and said turn table.

[2] The disk apparatus as recited in claim 1 wherein said clamping member comprises a clamper base which is rotatably combined to a chassis in the floating unit; a clamper-holding part which is connected to or integrated into said clamper base through an elastic clamp arm; and a clamper which is rotatably engaged with said clamper-holding part at and around the center of rotation of said disk-shaped recording medium.

[3] The disk apparatus as recited in claim 1 wherein a claw of a clamper-holding part is engaged with a hook of said clamper inside the internal position of the center hole of said disk-shaped recording medium held between said clamper and said turn table, and wherein said clamper is fitted in a shaft portion of said turn table at its engaging position.

[4] The disk apparatus as recited in claim 2 wherein a hook portion is formed at the center portion of said clamper, and wherein said hook portion includes a plurality of hooks formed at regular intervals on the same circumference, and a projection which is formed on the center axis of rotation of said disk-shaped recording medium and which comes into contact with said clamper-holding part when said disk-shaped recording medium is held between said clamper and said turn table.

[5] The disk apparatus as recited in claim 3 wherein said turn table has a shaft portion for positioning said disk-shaped recording medium; wherein said shaft portion has an annular groove formed therein at a position which corresponds to the engaging position of said claw of said clamper-holding part with said hook of said clamper; and

wherein a part of said clamper is fitted in said annular groove when said disk-shaped recording medium is held between said clamp and said turn table.